

REMARKS

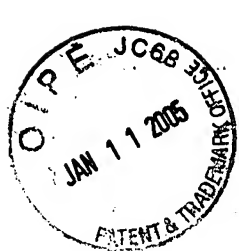
The symbol "Z" represents a bridging group as part of the structure of the alicyclic compounds used in forming the polymers used in the present invention, as described on Pages 11 of the subject specification. By the teachings made on Page 11 and the illustrative examples, Z is a hydrocarbylene group and, thus, has a formula of $-(C_tH_{2t})-$. The present amendment is made to correct the typographical error of the definition formula and to make the claim terminology consistent with that made in the specification.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Howard Troffkin", with a long horizontal flourish extending to the right.

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Reg. No. 25,184

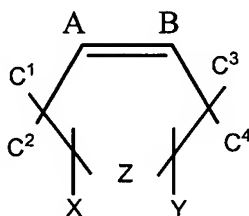
cc: M. Quatt



“polymer” means a polymerization product composed of a multiplicity of monomeric units (also referred to as “mer units”). The polymer may be a homopolymer composed of a plurality of like monomeric units or a copolymer composed of a plurality of two or more distinct monomeric units.

The present invention is directed to a condensation polymer having mer units derived from a condensation reaction of:

(A) at least one or a mixture of substituted alicyclic compounds having non-aromatic, ethylenic functionality according to the following representation:



wherein

A, B, C¹, C², C³, C⁴ each independently represents hydrogen or a C_qH_{2q+1} hydrocarbyl group with q being an integer in the range of from 0 to 20, provided that either A or B and at least one of C¹, C², C³, C⁴ are hydrogen atoms and each carbon atom of the alicyclic ring is fully substituted by hydrogen, hydrocarbyl, X and/or Y group(s) or mixtures thereof to fill its valence state;

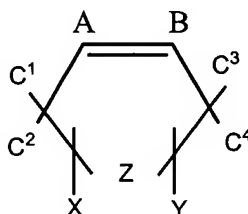
X and Y each independently represents -(CH₂)_n-C(=O)-D with n being an integer in the range from 0 to 20 and D being selected from a halide atom or an OR group wherein R is hydrogen atom or a C₁-C₁₂ alkyl group, or X and Y together represent -(CH₂)_n-C(=O)-D with x being 2, n being an integer in the range from 0 to 20 and D is oxygen atom; and

Z representing a $\text{-(C}_t\text{H}_{2t+2}\text{)-}$ $\text{-(C}_t\text{H}_{2t}\text{)-}$ hydrocarbylene group with t being an integer in the range from 1-4;

(B) at least one or a mixture of difunctional hydrocarbon compounds according to the following representation:

1. (Currently Amended): A film comprising at least one layer, the layer comprising an oxygen scavenger composition comprising a condensation polymer and an oxygen scavenging catalytic amount of a transition metal salt, compound or complex, wherein said polymer comprises mer units derived from:

(A) at least one or a mixture of substituted alicyclic compounds having non-aromatic, ethylenic functionality according to the following representation:



wherein

A, B, C¹, C², C³, C⁴ each independently represents hydrogen or a C_qH_{2q+1} hydrocarbyl group with q being an integer of from 0 to 20, provided that either A or B and at least one of C¹, C², C³, C⁴ are hydrogen atoms and each carbon atom of the alicyclic ring is fully substituted by hydrogen, hydrocarbyl, X and/or Y group(s) or mixtures thereof to fill its valence state;

X and Y each independently represents -(CH₂)_n-C(=O)-D with n being an integer in the range from 0 to 20 and D being selected from a halide atom or an OR group wherein R is hydrogen atom or a C₁-C₁₂ alkyl group, or X and Y together represent -(CH₂)_n-C(=O)_x-D with x being 2, n being an integer in the range from 0 to 20 and D is oxygen atom; and

Z representing a ~~-(C_tH_{2t+2})-~~ -(C_tH_{2t})- hydrocarbylene group with t being an integer in the range from 1-4;

(B) at least one or a mixture of difunctional hydrocarbon compounds

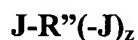
according to the following representation:



wherein

- 5 R' represents a C₅ or greater hydrocarbon group selected from
alkylene, cycloalkylene or arylene group, and
each G represents a hydroxyl or an amino group;

- (C) from 300 to 15,000 parts per million based on the total of (A), (B),
10 (C) and (D) of at least one or a mixture of polyfunctional hydrocarbon
compounds according to the following representation:



wherein

- 15 R'' represents a C₂-C₂₀ hydrocarbon group selected from alkylene,
cycloalkylene, arylene, alkarylene or aralkylene groups or mixtures thereof;
J represents a functional group selected from -OH, -NH₂, -N=C=O
and -(CH₂)_n-C=O)-D with n being an integer in the range from 0 to 20 and
D being selected from a halide atom or an OR''' group, wherein R''' is an -
20 H, or C₁-C₁₂ alkyl group, or two J groups together represents -(CH₂)_n-
C=O)_x-D with n being an integer of from 0 to 20, D being an oxygen atom
and x being 2;
z is an integer of from 2 to 5; and

- 25 (D) from 1 to 20 mole percent of the total of (A), (B), (C) and (D) of at
least one or a mixture of monomer compounds selected from isophthalic
acid, terephthalic acid, tetrahydroisophthalic acid, tetrahydroterephthalic
acid, hydrogenated isophthalic acid, hydrogenated terephthalic acid, C₁-C₁₂
alkyl esters thereof, anhydride derivatives thereof, and hydrocarbyl
30 derivatives thereof and lower C₁-C₅ glycol ester derivatives thereof; said X

and Y of (A), G of (B), J of (C) and functional groups of (D) are in amounts that provide a molar ratio of carboxylic acid, acid ester acid halide and isocyano groups to hydroxyl and amino groups of from 0.9:1 to 1.1:1.

5 2. (Original): The film of claim 1 wherein monomer (A) is selected from *cis*-1,2,3,6-tetrahydrophthalic anhydride; and dimethyl-1,2,3,6-tetrahydrophthalate.

10 3. (Original): The film of claim 1 wherein monomer (B) is selected from 1,5-pentanediol, 1,6-hexanediol, 1,7-heptanediol, 1,8-octanediol and mixtures thereof.

15 4. (Original): The film of claim 1 wherein the monomer (C) is selected from benzenepentacarboxylic acid, benzenhexacarboxylic acid, trimellitic anhydride, pyromellitic dianhydride, trimethylolpropane, pentaerythritol and mixtures thereof.

20 5. (Original): The film of claim 1 wherein monomer (D) is selected from isophthalic acid, terephthalic acid, isophthalic acid (C₁-C₃) alkyl ester, terephthalic acid (C₁-C₃) alkyl ester, bis(2-hydroxyethyl)terephthalate, bis(2-hydroxyethyl)isophthalate, hydrocarbyl substituted derivatives thereof and mixtures thereof.

Claims 6 - 24 (Withdrawn):